Welcome to the Research and Creative Activity Update!
The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.

These weekly email updates are archived on the RCA Website.

FUNDING OPPORTUNITIES
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- Department of Defense: Air Force Office of Scientific Research
- NSF STEM + Computing K-12 Education (STEM+C)
- Morris Animal Foundation: Large Animal Studies

NEWS & NOTICES
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- Dr. Neil Dyer Named as University Attending Veterinarian
- CCAST Cluster3 Being Repurposed
- Upgraded CCAST Thunder Cluster Available for Testing
- TEDxFargo Open Call for Students

EVENTS
- Unmanned Aircraft User Group Brown Bag Meeting

Department of Homeland Security: Long Range Broad Agency Announcement
The Department of Homeland Security (DHS), based on the DHS Science and Technology (S&T) Directorate 5-year Long Range Broad Agency Announcement, will continue to accept white papers until December 31, 2018. S&T’s mission is to “support basic and applied homeland security research to promote revolutionary changes in technologies; advance the development, testing and evaluation, and deployment of critical homeland security technologies; and accelerate the prototyping and deployment of technologies that would address homeland security vulnerabilities.” This Announcement declares S&T’s general interest in competitively funding R&D projects across a spectrum of science and engineering disciplines. S&T will focus on areas where risk inhibits mission or operational investments, and where significantly improved or increased capability payoffs can be expected. S&T seeks R&D projects for revolutionary, evolving, and maturing technologies that demonstrate the potential for significant improvement in homeland security missions and operations. For more information, see 2014 LRBAA Announcement (PDF Download).

White papers accepted until December 31, 2018.
**Department of Defense: Air Force Office of Scientific Research (AFOSR)**
The Air Force Office of Scientific Research is soliciting research proposals in areas that offer significant and comprehensive benefits to national warfighting and peacekeeping capabilities for two specific branches: 1) engineering and information sciences and 2) physical and biological sciences. Basic research areas of interest are outlined in their [Broad Agency Announcement (PDF download)](https://afosr.mil/).^^

**NSF STEM + Computing K-12 (STEM+C)**
An innovative science, technology, engineering, mathematics, and computing (STEM+C) workforce and well-educated citizenry are crucial to the Nation’s prosperity, security, and competitiveness. Preparation for the future workforce must begin in the earliest grades from preK-12, where students need to learn not only the science and mathematics central to these areas, but also how computational thinking is integral to STEM disciplines. Because of the powerful innovation and application of computing in STEM disciplines there is an urgent need for real-world, interdisciplinary, and computational preparation of students from the early grades through high school that will provide a strong foundation for mid-level technical careers and for continuing education. This is particularly important in the key science areas described in the National Science Foundation’s [Big Ideas for Future NSF Investment](https://www.nsf.gov). The STEM+C program supports research and development proposals related to new approaches to preK-12 STEM teaching and learning related to Harnessing the Data Revolution, Convergence Research and the Future of Work at the Human-Technology Frontier. The STEM+C Program focuses on research and development of interdisciplinary and transdisciplinary approaches to the integration of computing within STEM teaching and learning for preK-12 students in both formal and informal settings. The STEM+C program supports research on how students learn to think computationally to solve interdisciplinary problems in science and mathematics. For more information, see [FAQs](https://www.nsf.gov).

*Full proposal target date: July 2, 2018 (for potential funding in FY18). Proposals received after that date will be reviewed on a rolling basis.*^^

**Morris Animal Foundation: Large Animal Studies**
The mission of [Morris Animal Foundation](https://morrisanimal.org) is to bridge science and resources to advance the health of animals. Toward this aim, we are dedicated to funding hypothesis-driven research projects of high scientific merit and potential impact. Relevant projects promise to advance the health and well-being of large companion animals (horses and llamas/alpacas). The Foundation is now accepting proposals for Established Investigator, First Award, Fellowship Training, and Pilot Study grants on topics relevant to large companion animals (horses and llamas/alpacas) health and welfare. Separate funding programs are also available for small companion animals (cats, dogs) and for wildlife, including reptiles, amphibians, and exotic pets. There is not a limit to how many proposals an institution can submit, but there is a limit to how many an individual investigator can submit.

*Deadline: July 11, 2018*^^

**April Issue of Research Development and Grant Writing News**
The April issue of [Research Development and Grant Writing News](https://www.ndsu.edu) is now available to view. Use your NDSU login information to access this resource. Various topics are covered, including:
- Why is Your Research in the National Interest
- Silent Partner Flaw in Team Proposals
- NSF’s Vision for Future Research Centers
- How to Formulate Hypotheses for NSF and NIH^^
Dr. Neil Dyer Named as University Attending Veterinarian
Dr. Kelly A. Rush, Vice President of the Office of Research and Creative Activity, has named NDSU Professor and current interim Attending Veterinarian Dr. Neil Dyer as Attending Veterinarian.

Dr. Dyer has been involved with animal care at NDSU since 1995, when he joined the veterinary diagnostic laboratory (VDL) working under campus veterinarian Dr. Herb Smith. He served as director of the VDL for 20 years before stepping down at the end of 2016. Dr. Dyer has been involved in the regulatory aspects of animal research in a variety of capacities at NDSU including part-time and backup attending veterinarian, chair of the NDSU Institutional Animal Care and Use Committee (IACUC), and most recently, as interim attending veterinarian for the past nine months. Dr.

Dyer is a Bismarck native who received his BS in Zoology from NDSU and DVM and MS in veterinary pathology from Iowa State University. He has experience in exotic, small animal, and mixed animal practices and has served as a track veterinarian, taught courses in animal health, worked as diagnostic pathologist, and facilitated animal care and use at NDSU.

CCAST Cluster3 Being Repurposed
The previously announced date of June 1, 2018, for the repurposing of CCAST Cluster3 is fast approaching. As of that date, all the worker nodes of the cluster will be shut down and repurposed for the new virtualization cluster that CCAST is building with help from the Computer Science Department. The virtualization cluster will be useful for both research and educational purposes. Please stay tuned for future announcements about availability, capabilities, and training for this new cluster later this Summer and Fall. The virtualization cluster is planned to be in full operation in January 2019.

Data from Cluster3 will be available until September 1, 2018, through the current login node. After that time, the node and disks will be repurposed and erased. All valuable user data must be migrated prior to September 1, 2018, or it will be deleted. Please contact support@ccast.ndsu.edu if assistance is required.

Upgraded CCAST Thunder Cluster Available for Testing
The new and improved Thunder cluster is now open for testing at CCAST! Recent additions to Thunder have tripled the computational power of the Thunder cluster with the addition of 40 new compute nodes, one new 1.5TB RAM node, and 2 new NVIDIA GPU nodes. CCAST staff are in the process of installing the latest versions of all the current system modules on the new nodes to take full advantage of the new hardware. This is the first significant upgrade to Thunder hardware since 2014. Please see the CCAST website for instructions on how to access the new hardware and perform your own migration testing from the old system to the new.

TEDxFargo Open Call for Students
TEDxFargo 2018 is looking for people, specifically students, with ideas worth sharing. They are interested in hearing bright ideas from young people to help solve challenges and create possibilities. This Open Call gives students the opportunity to pitch their idea through the Flipgrid video platform for a chance to present on the main stage at TEDxFargo 2018.
To participate, students can submit their video here or go to flipgrid.com and enter the code d88d62. Submissions are due May 2, 2018. Please feel free to share this information with your students.

Unmanned Aircraft User Group Brown Bag Meeting
Faculty, staff, and students are invited to a lunchtime brown bag meeting to discuss various topics surrounding use of unmanned aircraft for research and education, including processing of sensor data. The meeting will be informal with topics selected according to interests of the attendees. This is intended to become a monthly meeting to stimulate communication and collaboration amongst UAS users.
Friday, April 27, 2018 | 12:00-1:00 p.m. | Memorial Union Badlands Room
You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.

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